

SUPPLEMENTAL DETAIL ACTION

Response to Arguments

1. Examiner took notice of the remarks made by applicant filed on 6/4/08.

Response to Amendment

2. This office action is in response to Amendment filed on 6/4/08.
3. Claims 8, 9, 13, 18, 21, 22, 30-32, 34-44 pending.

Allowable Subject Matter

4. Claims 8, 9, 13, 18, 21, 22, 30-32, 34-44 are allowed.
5. Claims 8, 9, 13, 18, 21, 22, 30-32, 34-44 are considered allowable since prior art made of record and considered pertinent to the applicant's disclosure does not teach or suggest the claimed limitations having an information storage apparatus having in combination with other features, the cold cathode electron beam emitting part includes a cold cathode placed in a chamber surrounded by a partition and a film capable of transmitting an electron beam, wherein the inside of the chamber has a vacuum degree higher than a space sandwiched between the film capable of transmitting an electron beam and the anode.

The prior art does not teach the claimed invention of an information storage apparatus having in combination with other features, wherein the cold cathode electron beam emitting part includes a plurality of electron-beam emitting parts, and the electron-beam emitting parts emit respective electron beams at different timings in accordance with a distance from a given center so as to cause the emitted electron beams to converge.

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The prior art of record does not show the limitation of the information storage apparatus comprising: a cold cathode electron beam emitting part; a flat anode opposed to the cold cathode electron beam emitting part; and an accelerating part for accelerating the electron beam emitted from the cold cathode electron beam using an electric field, wherein the accelerating means part includes a plurality of electrodes to which storage with different phases are accelerated the electron beam by generating a moving electric field.

The prior art of record does not show the limitation of the information storage apparatus of having in combination with other features, an irradiated-position-shift detecting part for detecting a shift between a given reference position and a position in the storage medium irradiated with each of the electron beams in accordance with the movement of said one of the shielding part and the storage medium by the actuator part, wherein the position irradiated with each of the electron beams is controlled by the actuator part in accordance with a result of the detection by the irradiated-position-shift detecting part.

The prior art of record does not show the limitation of the information storage apparatus of having in combination with other features, an irradiated-position detecting part for detecting a shift from a given reference position in accordance with a detection signal obtained when a irradiated-position detecting portion provided in part of the storage medium is irradiated with an electron beam emitted from at least one of the cold cathode electron beam emitting parts, wherein the position irradiated with the electron beam is controlled by the deflection parts and the convergence parts with respect to one or more electron beams emitted from the other cold cathode electron beam emitting parts in accordance with a result of the detection by the irradiated-position detecting part.

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The prior art of record does not show the limitation of the information storage apparatus of having in combination with other features, wherein an electron beam emitted from a part of the cold cathode electron beam emitting means parts is used to store and read at least one of error detecting code and error correcting code in storing or reading of information by using one or more electron beams emitted from the other cold cathode electron beam emitting means parts.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to whose telephone number is (571) 272-1799. The examiner can normally be reached on Mon. - Fri. from 8:00 A.M. to 5:30 PM. The examiner's supervisor, Amir Zarabian, can be reached at (571) 272-1852. The fax phone number for this Group is (571) 273-8300.

7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov> should you have questions on access to the Private Pair system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Connie C. Yoha/

Primary Examiner, Art Unit 2827

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